

## FLORISTICS OF THE LOUISIANA CAJUN AND INLAND PRAIRIES

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The Louisiana prairies (Fig. 1) include the coastal prairie in the southwestern portion of the state (Allain et al. 2000, 2006; Allen & Vidrine 1989; Allen et al. 2001; Post 1969; Vidrine 2010) and inland prairies of the central and northern parts of the state (Post 1969; Smith 1995). Coastal prairie in Louisiana was mostly continuous so it is basically one system, while the inland prairies are scattered across the area as isolated small prairies. The objectives of this paper are to bring together the floristics of Louisiana prairies using published works and to compare and contrast the floras of the different prairie systems.

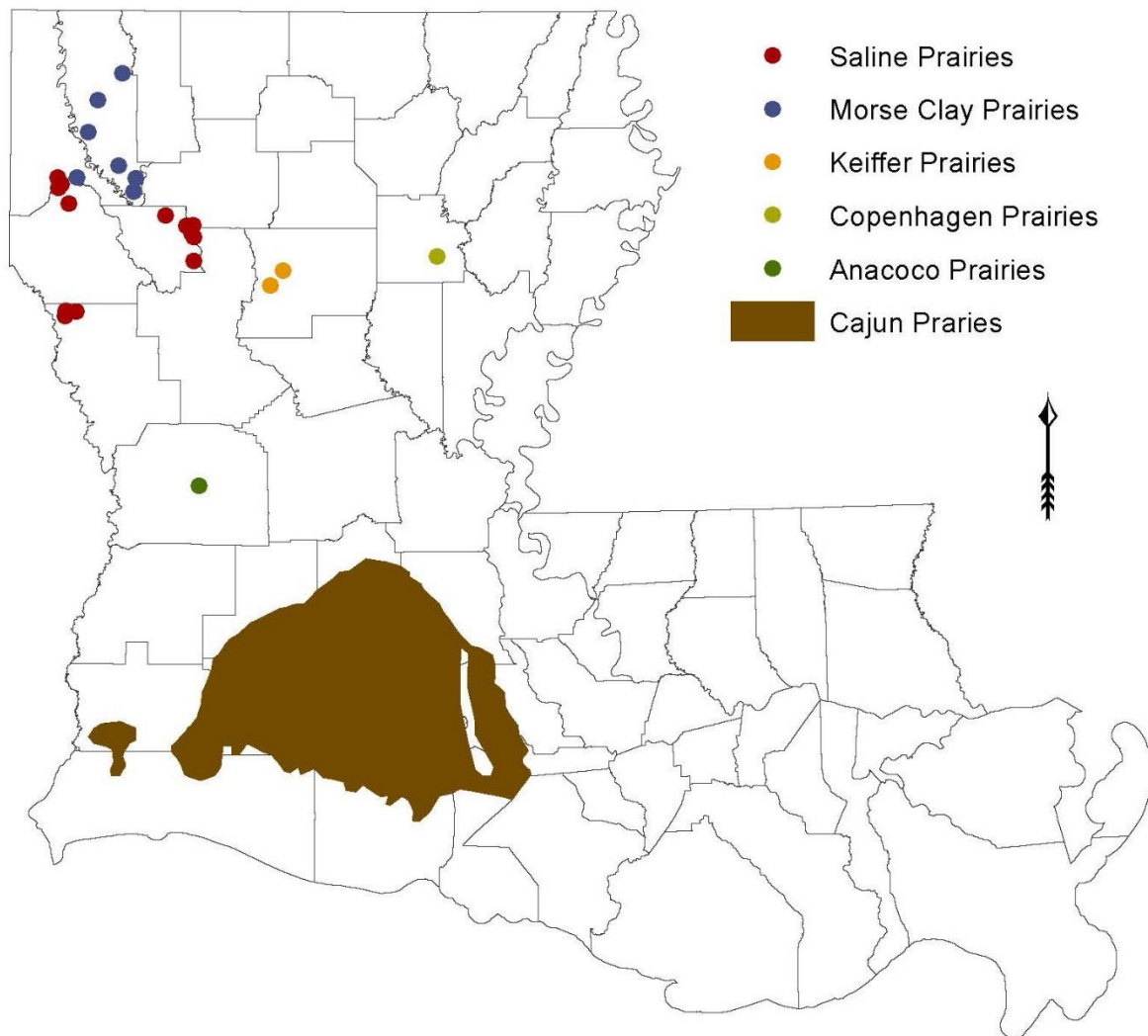


Figure 1. Prairies of Louisiana.

The coastal prairie, also called Cajun Prairie in Louisiana, once occupied 1,000,000 hectares (2.5 million acres) (Allain et al. 2000, 2006; Allen & Vidrine 1989; Allen et al. 2001; Vidrine 2010; Vidrine et al 1995). Cajun Prairie occurs in southwestern Louisiana between the Atchafalaya and Sabine Rivers, where most of the European settlers were Cajuns (French Acadians). It was once mostly continuous, only interrupted by gallery forests that developed along the streams. The soils in the Cajun Prairie are moderately acidic silt loams underlain by a densely packed, hard clay pan 20 to 40 cm (8 to 16 inches) below the surface (Clark et al. 1962; Murphy et al. 1986). This prairie developed in an area with 125 cm (50 inches) of annual rainfall; forests usually develop in areas with more than 76 cm (30 inches) of rainfall per year. The development prairie in this area could be linked to the hard claypan below the surface, fires, or other factors. Most of the prairie has been destroyed, with only a few remnant railroad strips remaining. The studies of Cajun Prairie are based on these remaining railroad remnants, a total of about 200 acres. Cajun Prairie grades into coastal marsh to the south, bottomland hardwood forests to the east, and pine savannah forest to the north and west. The herbaceous component of the pine savannah and the Cajun Prairie is very similar but very few pine trees occur in the Prairie. A thorough treatise of many aspects of Cajun Prairie (history, floristics, faunistics, etc.) can be found in Vidrine (2010).

The inland prairies occur in the central and northern parts of Louisiana (Post 1969; Smith 1995) and these prairies occur in small patches in widely scattered locations. The inland prairies in Louisiana are calcareous, Morse clay, and saline.

The calcareous system is the largest of the three inland prairies with named prairies, including Anacoco in Vernon Parish (Allen et al 2006), Keiffer in Winn Parish (Smith et al. 1989; Allen 1993), and Copenhagen in Caldwell Parish. MacRoberts and MacRoberts (1996) studied and reported on the flora of two small calcareous prairies in Natchitoches Parish — their data are combined here with the nearby Keiffer Prairies of Winn Parish. Surrounding most calcareous prairie patches is a Fleming calcareous forest, characterized by small trees, shrubs, and stunted larger trees. There is a dense canopy and a very limited number of herbaceous species except in openings. The common trees include *Fraxinus americana*, *Liquidambar styraciflua*, and *Pinus echinata*. Small trees and shrubs include *Crataegus marshallii*, *Crataegus crus-galli*, *Crataegus spathulata*, *Sideroxylon lanuginosum*, *Viburnum rufidulum*, and *Cornus drummondii*. The common vine is *Berchemia scandens*. The soils of the calcareous prairies are usually moderately alkaline clays (Soil Survey Staff 2003). Apparently, no floristic surveys have been published for the Copenhagen Prairie System.

Morse Clay prairies and soils occur on Pleistocene intermediate terraces in northwestern and central Louisiana and southwestern Arkansas (MacRoberts et al. 2009b). These prairies typically exist as small grassy openings on side-slopes and flats in shortleaf pine with reddish, fine textured, alkaline and calcareous clay and silt loam soils.

Saline prairies are described in Reid et al. (2010) and MacRoberts et al. (2009a). Louisiana saline prairies occur on fluvial terraces adjacent to active floodplains. The soils formed in loamy late Pleistocene sediments and are one of three soil series — Bonn, Brimstone, or Lafe. The soils are often either extremely dry or waterlogged and usually with strongly alkaline pH.

## METHODS

All published floristic works on Louisiana prairie were examined and a list of taxa generated. The nomenclature and family names are from the published work or the USDA Plants database (USDA NRCS 2013). The vascular flora of the Cajun Prairie includes 513 taxa in 92 families and 277 genera (Allen et al 2001). The family with the most taxa is the Asteraceae (80), followed by the Poaceae (78), Cyperaceae (50), Fabaceae (35), Lamiaceae (19), Scrophulariaceae (18), and Onagraceae (15). Allen et al (2006) reported 177 species from the Anacoco Calcareous Prairie with 46 species from the Poaceae, 43 from the Asteraceae, and 25 from the Fabaceae. Smith et al. (1989) reported 215 taxa from

the Keiffer Prairie, including 52 species from the Poaceae, 40 from the Asteraceae, and 19 from the Fabaceae. Allen (1993) added to the work of Smith et al. (1989) and reported 135 additional species from the Keiffer Prairie Forest System. The number of taxa reported from the Morse Clay prairies is 159 (MacRoberts et al. 2009b). This includes 45 families, the largest families being the Asteraceae with 40 taxa, Poaceae with 23, and Fabaceae with 17. Reid et al. (2010) reported 219 species from Saline Prairies in 65 families, with 39 species in the Poaceae, 22 in the Cyperaceae, and 20 in the Asteraceae.

After the list of species from Louisiana prairies was generated, comparisons were made between the species from each of the prairies. The number of species unique to each system plus the number of species in common between each prairie was determined. The native status of each species was determined using the Plants Database (USDA NRCS 2013).

### RESULTS

A total of 934 species have been reported from all Louisiana prairies (Table 2). The Louisiana Prairie species are found in 126 families with the largest being the Asteraceae with 138 species followed by the Poaceae with 135, the Cyperaceae with 84, and the Fabaceae with 68. The largest genus is *Carex* with 30 species followed by *Cyperus*, *Dichanthelium*, and *Rhynchospora*, each with 14 species.

The Cajun Prairie system had the most unique species at 212 and the Keiffer system had 92 unique species, the saline system had 73 unique species, the Anacoco system had 73 unique species, and the Morse Clay had 16 unique species. The two systems with the most species in common were the Anacoco and Keiffer with 102 and the fewest were Saline and Morse Clay with zero (Table 1). The three systems with the most species in common were Cajun, Anacoco, and Keiffer with 48 species and the fewest were the Anacoco, Saline, and Morse with zero species in common. There were 45 species in common to the Cajun, Anacoco, Keiffer, and Morse Clay Systems but only two species in common to the Cajun, Anacoco, Morse Clay, and Saline Systems. Seventeen species were in common to all five systems, Cajun, Anacoco, Keiffer, Morse Clay, and Saline. A total of 204 species were noted in the adjacent forest system of the prairies. The number of non-native species include 69.

Four species have been reported for Louisiana prairies in error including *Elymus canadensis*, (= *E. virginicus* L.), *Euphorbia marginata* (= *E. bicolor* Engelm. & Gray), *Mimosa microphylla* (= *M. nuttallii* (DC.) B.L. Turner), and *Linum rigidum* (= *L. medium* var. *texanum* (Planch.) Fern. or *L. striatum* Walt.). All four errors seem to be based on misidentified specimens, with the probable correct species identification following the name that was in error.

### DISCUSSION

As expected, the two calcareous prairies, Anacoco and Keiffer, had the most species in common at 102. The surprisingly large number, 39, of species in common between the Cajun Prairie and Saline Prairie could perhaps be explained by the coastal characteristics (extremely dry or waterlogged soils and strongly alkaline pH) of the inland Saline Prairies. The low number of species in common between the Morse Clay and Saline Prairies and Keiffer Prairies is a mystery since these three are fairly close together geographically. Some of the differences between the number of species reported for Louisiana Prairie Systems could be linked to size of the individual prairies studied, search effort, length of study time, or other factors.

Additional floristic studies should be performed on the other prairies in Louisiana, i.e., the Copenhagen Calcareous Prairie and others. Efforts should also be made to protect all of these prairie systems in the state from destruction and degradation. Restoration of appropriate sites and enhancement of current prairies should be pursued, especially removal of and prevention of invasive species.

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Table 1. Number of plant species in common across the prairie systems in Louisiana.

<b>Systems</b>	<b>Species in Common</b>
Cajun-Anacoco	38
Cajun-Keiffer	34
Cajun-Saline	39
Cajun-Morse Clay	5
Anacoco-Keiffer	102
Anacoco-Saline	4
Anacoco-Morse Clay	3
Keiffer-Saline	6
Keiffer-Morse Clay	13
Saline-Morse Clay	0
Cajun-Anacoco-Keiffer	48
Cajun-Anacoco-Morse Clay	5
Cajun-Anacoco-Saline	9
Cajun-Keiffer-Morse Clay	9
Cajun-Keiffer-Saline	13
Cajun-Saline-Morse Clay	0
Anacoco-Keiffer-Morse Clay	14
Anacoco-Keiffer-Saline	2
Keiffer-Morse Clay-Saline	6
Cajun-Anacoco-Keiffer-Morse Clay	45
Cajun-Anacoco-Keiffer-Saline	31
Cajun-Anacoco-Morse Clay-Saline	2
Cajun-Keiffer-Morse Clay-Saline	6
Anacoco-Keiffer-Morse Clay-Saline	10
Cajun-Anacoco-Keiffer-Morse Clay-Saline	17

Table 2. List of species by group and family reported for Louisiana prairies (C= Cajun Prairie, A = Anacoco Calcareous Prairie, K = Keiffer Calcareous Prairie, M = Morse Clay Prairie, S = Saline Prairie, and F = primarily a forest species) (nomenclature and families from USDA NRCS 2013).

\* = non-native species. \*\* = species misidentified in the literature.

#### **PTERIDOPHYTES**

##### **Aspleniaceae**

*Asplenium platyneuron* (L.) B.S.P. (C, A, S; F)

##### **Dennstaedtiaceae**

*Pteridium aquilinum* (L.) Kuhn (C, A; F)

##### **Dryopteridaceae**

*Polystichum acrostichoides* (Michx.) Schott (A, K; F)

**Isoetaceae**

*Isoetes melanopoda* Gay & Durieu ex Durieu (S)

**Lygodiaceae**

\**Lygodium japonicum* (Thunb. ex Murr.) Sw. (C)

**Ophioglossaceae**

*Botrychium biternatum* (Sav.) Underwood (A, K; F)

*Botrychium lunarioides* ((Michx.) Sw. (S)

*Botrychium virginianum* (L.) Sw. (A, K; F)

*Ophioglossum engelmannii* Prantl (K; F)

**Polypodiaceae**

*Pleopeltis polypodioides* (L.) Andrews & Windham (A; F)

**Thelypteridaceae**

*Phegopteris hexagonoptera* (Michx.) Fée (A; F)

*Thelypteris kunthii* (Desv.) Morton (K; F)

**GYMNOSPERMS****Cupressaceae**

*Juniperus virginiana* L. (K, M, S; F)

**Pinaceae**

*Pinus echinata* P. Mill. (A, K, M, S; F)

*Pinus palustris* P. Mill. (C, A; F)

*Pinus taeda* L. (C, A, K, S; F)

**Taxodiaceae**

*Taxodium distichum* (L.) L.C. Rich. (C; F)

**MONOCOTYLEDONS****Agavaceae**

*Manfreda virginica* (L.) Salisb. ex Rose (C, A, K, M)

*Yucca louisianensis* Trel. (K, M, S)

**Alismataceae**

*Sagittaria papillosa* Buchenau (S)

**Araceae**

*Arisaema dracontium* (L.) Schott (A, K; F)

*Arisaema triphyllum* (L.) Schott subsp. *triphyllum* (A, K; F)

**Arecaceae**

*Sabal minor* (Jacq.) Pers. (A, K, M, S; F)

**Bromeliaceae**

*Tillandsia usneoides* (L.) L. (A; F)

**Commelinaceae**

- Commelina erecta* L. (C)  
*Tradescantia hirsutiflora* Bush (C, A, K, S)  
*Tradescantia occidentalis* (Britt.) Smyth (S)  
*Tradescantia reverchonii* Bush (A)  
*Tradescantia virginiana* L. (C)

**Cyperaceae**

- Bulbostylis capillaris* (L.) Kunth ex C.B. Clarke (C)  
*Carex abscondita* Mack. (M)  
*Carex alata* Torr. (C)  
*Carex amphibola* Steud. (A)  
*Carex arkansana* Bailey (S)  
*Carex albolutescens* Schwein. (C)  
*Carex blanda* Dewey (A, K)  
*Carex bushii* Mack. (S)  
*Carex caroliniana* Schwein. (K)  
*Carex cherokeensis* Schwein. (C, A, K, M; F)  
*Carex complanata* Torr. & Hook. (C, K, S)  
*Carex crinita* Lam. (A)  
*Carex crus-corvi* Shuttleworth ex Kunze (S)  
*Carex debilis* Michx. var. *debilis* (A, K)  
*Carex digitalis* Willd. (A)  
*Carex flaccosperma* Dewey (A, K)  
*Carex frankii* Kunth (C, A)  
*Carex glaucodea* Tuckerman ex Olney (A, K)  
*Carex granularis* Muhl. ex Willd. (K)  
*Carex lonchocarpa* Willd. (A)  
*Carex longii* Mackenzie (A)  
*Carex lupulina* Muhl. ex Willd. (A, S)  
*Carex lurida* Wahlenb. (A)  
*Carex meadii* Dewey (A, M)  
*Carex microdonta* Torr. & Hook. (C, A, K)  
*Carex oxylepis* Torr. & Hook. var. *oxylepis* (A, K)  
*Carex planispicata* Naczi (K)  
*Carex retroflexa* Muhl. ex Willd. (A, K)  
*Carex striatula* Michx. (A)  
*Carex styloflexa* Buckl. (A)  
*Carex vulpinoidea* Michx. (C)  
*Cladium mariscus* subsp. *jamaicense* (Crantz) Kükenth. (C)  
*Cyperus acuminatus* Torr. & Hook. ex Torr. (C, S)  
*Cyperus croceus* Vahl (C)  
*Cyperus echinatus* (L.) Wood (C, S)  
*Cyperus erythrorhizos* Muhl. (C)  
*Cyperus haspan* L. (C)  
 \**Cyperus iria* L. (C)  
*Cyperus oxylepis* Nees ex Steud. (C)  
*Cyperus pseudovegetus* Steud. (C, S)  
*Cyperus retroflexus* Buckley (S)  
*Cyperus retrorsus* Chapman (C, S)  
 \**Cyperus rotundus* L. (C)

*Cyperus squarrosus* L. (S)  
*Cyperus strigosus* L. (C, A, S)  
*Cyperus virens* Michx. (C)  
*Eleocharis ambigens* Fernald (S)  
*Eleocharis microcarpa* Torr. (C)  
*Eleocharis montana* (Kunth) Roemer & Schultes (C)  
*Eleocharis obtusa* (Willd.) J.A. Schultes (C)  
*Eleocharis quadrangulata* (Michx.) Roemer & Schultes (C)  
*Eleocharis tenuis* var. *verrucosa* (Svenson) Svenson (S)  
*Eleocharis tuberculosa* (Michx.) Roemer & Schultes (C)  
*Eleocharis wolfii* (A. Gray) A. Gray ex Britt. (S)  
*Fimbristylis annua* (All.) Roemer & Schultes (A)  
*Fimbristylis autumnalis* (L.) Roemer & Schultes (C)  
*Fimbristylis castanea* (Michx.) Vahl (K)  
*Fimbristylis miliacea* (L.) Vahl (C)  
*Fimbristylis puberula* (Michx.) Vahl (C, A, K, M, S)  
*Fuirena pumila* (Torr.) Spreng. (C)  
*Isolepis carinata* Hook. & Arn. ex Torr. (C, S)  
*Kyllinga brevifolia* Rottb. (C)  
*Kyllinga odorata* Vahl (C)  
*Rhynchospora caduca* Ell. (C, A, K, S)  
*Rhynchospora cephalantha* Gray (C)  
*Rhynchospora chalarocephala* Fern. & Gale (C)  
*Rhynchospora colorata* (L.) H. Pfeiffer (C)  
*Rhynchospora corniculata* (Lam.) Gray (C, K, S)  
*Rhynchospora elliotii* A. Dietr. (C)  
*Rhynchospora globularis* (Chapman) Small (C, A, K, S)  
*Rhynchospora glomerata* (L.) Vahl (C)  
*Rhynchospora harveyi* W. Boott (C, S)  
*Rhynchospora inexpansa* (Michx.) Vahl (A)  
*Rhynchospora microcarpa* Baldw. ex Gray (C)  
*Rhynchospora pusilla* Chapman ex M.A. Curtis (C)  
*Rhynchospora rariflora* (Michx.) Ell. (C)  
*Rhynchospora recognita* (Gale) Kral (A)  
*Scirpus atrovirens* Willd. (C, A, K)  
*Scleria ciliata* Michx. (C, M, S; F)  
*Scleria oligantha* Michx. (A, K, M; F)  
*Scleria pauciflora* Muhl. ex Willd. (C)  
*Scleria reticularis* Michx. (C)  
*Scleria triglomerata* Michx. (A; F)  
*Scleria verticillata* Muhl. ex Willd. (C)

### **Dioscoreaceae**

*Dioscorea villosa* L. (A, K; F)

### **Iridaceae**

*Alophia drummondii* (Graham) R.C. Foster (S)  
*Herbertia lahue* (Molina) Goldblatt (C, A)  
*Iris virginica* L. (C)  
*Nemastylis geminiflora* Nutt. (M)  
*Sisyrinchium albidum* Raf. (M)



*Sisyrinchium angustifolium* P. Mill. (C, K)  
*Sisyrinchium atlanticum* Bickn. (C, S)  
*Sisyrinchium campestre* E.P. Bicknell (K)  
*Sisyrinchium exile* Bickn. (C)  
*Sisyrinchium langloisii* Greene (C, M, S)  
*Sisyrinchium rosulatum* E.P. Bicknell (S)

### **Juncaceae**

*Juncus acuminatus* Michx. (S)  
*Juncus brachycarpus* Engelm. (C, S)  
 \**Juncus capitatus* Weigel (S)  
*Juncus coriaceus* Mack. (K)  
*Juncus dudleyi* Wiegand (S)  
*Juncus dichotomus* Elliott (S)  
*Juncus effusus* L. (C)  
*Juncus marginatus* Rostk. (C, S)  
*Juncus nodatus* Coville (C)  
*Juncus polycephalus* Michx. (C)  
*Juncus secundus* P. Beauv. ex Poir. (S)  
*Juncus tenuis* Willd. (C, A)  
*Juncus validus* Coville (C)  
*Luzula bulbosa* (Wood) Smyth & Smyth (A, S; F)

### **Liliaceae**

*Aletris aurea* Walt. (C)  
*Aletris farinosa* L. (C)  
*Allium canadense* L. var. *canadense* (C, K, M)  
*Allium canadense* var. *mobile* (Regel) Ownbey (C, A, K, S)  
*Camassia scilloides* (Raf.) Cory (K; F)  
*Cooperia drummondii* Herbert (S)  
*Habenaria tubispathus* (L'Her.) Traub. (S)  
*Hymenocallis liriosme* (Raf.) Shinnery (C)  
*Hymenocallis occidentalis* (J. Le Conte) Kunth (A, K; F)  
*Hypoxis hirsuta* (L.) Coville (C, K)  
*Lilium michauxii* Poir. (A, K)  
*Nothoscordum bivalve* (L.) Britt. (C, A, K, M, S)  
*Polygonatum biflorum* (Walt.) Ell. (A, K; F)  
*Schoenolirion wrightii* Sherman (S)  
*Stenanthium gramineum* (Ker-Gawl.) Morong (A, K; F)  
*Trillium gracile* J.D. Freeman (A; F)  
*Uvularia perfoliata* L. (K; F)

### **Orchidaceae**

*Calopogon oklahomensis* D.H. Goldman (C)  
*Cypripedium kentuckiense* C.F. Reed (A; F)  
*Listera australis* Lindl. (A; F)  
*Platanthera nivea* (Nutt.) Luer (C)  
*Pteroglossaspis ecristata* (Fern.) Rolfe (C)  
*Spiranthes laciniata* (Small) Ames (M)  
*Spiranthes odorata* (Nutt.) Lindl. (K)  
*Spiranthes praecox* (Walt.) S. Wats. (K)

*Spiranthes vernalis* Engelm. & Gray (C, S)  
*Tipularia discolor* (Pursh) Nutt. (A, K; F)

### Poaceae

*Agrostis elliottiana* Schult. (S)  
*Agrostis hyemalis* (Walt.) B.S.P. (C, A, S)  
*Agrostis perennans* (Walt.) Tuckerman (A; F)  
 \**Aira caryophyllea* L. (S)  
 \**Aira elegans* Willd. (S)  
*Alopecurus carolinianus* Walt. (C)  
*Andropogon gerardii* Vitman (C, A, K, M)  
*Andropogon glomeratus* (Walt.) B.S.P. (C, A, K, M)  
*Andropogon gyrans* Ashe var. *gyrans* (C, A)  
*Andropogon ternarius* Michx. (C, A, S)  
*Andropogon virginicus* L. (C, A, K, M)  
*Anthaenantia rufa* (Nutt.) J.A. Schultes (C)  
*Aristida dichotoma* Michx. (K)  
*Aristida longespica* var. *geniculata* (Raf.) Fernald (K)  
*Aristida longespica* Poir. var. *longespica* (C, A, K, S)  
*Aristida oligantha* Michx. (C, A, K, M, S)  
*Aristida palustris* (Chapman) Vasey (A)  
*Aristida purpurascens* Poir. var. *purpurascens* (C, A, K)  
*Aristida purpurascens* var. *virgata* (Trin.) Allred (K)  
*Arundinaria gigantea* (Walt.) Muhl. subsp. *gigantea* (A, K; F)  
 \**Avena sativa* L. (A)  
*Axonopus fissifolius* (Raddi) Kuhlm. (C, K)  
*Bothriochloa exaristata* (Nash) Henr. (C)  
 \**Bothriochloa ischaemum* var. *songarica* (Rupr. ex Fisch. & Mey.) Celarier & Harlan (C, A, K, M)  
*Bothriochloa longipaniculata* (Gould) Allred & Gould (C, M)  
*Bouteloua rigidiseta* (Steud.) Hitchc. (C, A)  
*Brachyelytrum erectum* (Schreb. ex Spreng.) Beauv. (A; F)  
*Briza minor* L. (C, K, S)  
 \**Bromus catharticus* Vahl (C)  
 \**Bromus japonicus* Thunb. (K)  
*Bromus pubescens* Muhl. ex Willd. (A, K; F)  
 \**Bromus racemosus* L. (S)  
*Chasmanthium latifolium* (Michx.) Yates (A, K; F)  
*Chasmanthium laxum* (L.) Yates (A, K; F)  
*Chasmanthium sessiliflorum* (Poir.) Yates (A, K; F)  
 \**Chloris canterai* Arech. (C)  
*Coelorachis cylindrica* (Michx.) Nash (C, K)  
*Coelorachis rugosa* (Nutt.) Nash (C)  
*Ctenium aromaticum* (Walt.) Wood (C)  
 \**Cynodon dactylon* (L.) Pers. (C, K, S)  
 \**Dactylis glomerata* L. (K)  
*Danthonia spicata* (L.) Beauv. ex Roemer & Schultes (A; F)  
*Dichantherium aciculare* (Desv. ex Poir.) Gould & C.A. Clark (C, A, K, M, S)  
*Dichantherium acuminatum* (Sw.) Gould & Clark (C, A, K, S)  
*Dichantherium boscii* (Poir.) Gould & Clark (A, K; F)  
*Dichantherium commutatum* (J.A. Schultes) Gould (A, K; F)  
*Dichantherium consanguineum* (Kunth) Gould & Clark (K)

*Dichanthelium depauperatum* (Muhl.) Gould (A; F)  
*Dichanthelium dichotomum* (L.) Gould (C, K, S)  
*Dichanthelium laxiflorum* (Lam.) Gould (A, K; F)  
*Dichanthelium oligosanthes* (J.A. Schultes) Gould var. *oligosanthes* (S)  
*Dichanthelium oligosanthes* var. *scribnerianum* (Nash) Gould (C, A, K)  
*Dichanthelium ovale* (Ell.) Gould & Clark (C)  
*Dichanthelium ravenelii* (Scribn. & Merr.) Gould (K; F)  
*Dichanthelium scoparium* (Lam.) Gould (C, S)  
*Dichanthelium sphaerocarpon* (Ell.) Gould var. *sphaerocarpon* (C, A, K, S)  
*Digitaria ciliaris* (Retz.) Koel. (C)  
*Digitaria cognata* (J.A. Schultes) Pilger (C, S)  
*Digitaria filiformis* (L.) Koel. (C)  
\**Digitaria ischaemum* (Schreb.) Schreb. ex Muhl. (C, K)  
\**Digitaria violascens* Link (C, K)  
\**Echinochloa crus-galli* (L.) Beauv. (C)  
\*\**Elymus canadensis* L. (= *E. virginicus* L.)  
*Elymus virginicus* L. (A, K, M)  
\**Eragrostis bahiensis* (Schrud. ex Schultes) J.A. Schultes (C)  
*Eragrostis elliottii* S. Wats. (C, A)  
*Eragrostis hirsuta* (Michx.) Nees (C, A)  
*Eragrostis lugens* Nees (C, A, M, S)  
*Eragrostis refracta* (Muhl.) Scribn. (C, A)  
*Eragrostis secundiflora* J. Presl (K, S)  
*Eragrostis spectabilis* (Pursh) Steud. (C, A, K, M)  
\**Festuca arundinacea* Schreb. (K)  
*Festuca paradoxa* Desv. (K)  
*Festuca subverticillata* (Pers.) Alexeev (K)  
*Gymnopogon ambiguus* (Michx.) B.S.P. (K)  
*Gymnopogon brevifolius* Trin. (C, A)  
*Hordeum pusillum* Nutt. (A, S)  
*Koeleria macrantha* (Ledeb.) Schult. (K)  
*Leersia hexandra* Sw. (C)  
*Leersia virginica* Willd. (A, K; F)  
*Limnodea arkansana* (Nutt.) L.H. Dewey (C)  
\**Lolium perenne* L. (C, S)  
*Melica mutica* Walt. (A, K; F)  
*Muhlenbergia capillaris* (Lam.) Trin. (C, A, K)  
*Muhlenbergia schreberi* J.F. Gmel. (K)  
\**Oplismenus hirtellus* (L.) P. Beauv. (K; F)  
*Panicum anceps* Michx. (C, A, K, M)  
*Panicum brachyanthum* Steud. (C, S)  
*Panicum flexile* (Gattinger) Scribn. (A, K)  
*Panicum hemitomom* J.A. Schultes (C)  
*Panicum rigidulum* Bosc ex Nees var. *rigidulum* (C, K)  
*Panicum virgatum* L. (C, A, K)  
\**Paspalum dilatatum* Poir. (C, A, K, M)  
*Paspalum floridanum* Michx. (C, A, K, M, S)  
*Paspalum laeve* Michx. (C, A, K, M)  
*Paspalum plicatulum* Michx. (C, A)  
*Paspalum praecox* Walt. (C)  
*Paspalum pubiflorum* Rupr. ex Fourn. (A)

*Paspalum setaceum* Michx. (C, A, K, S)  
 \**Paspalum urvillei* Steud. (C, A, K)  
*Phalaris angusta* Nees ex Trin. (C)  
*Phalaris caroliniana* Walt. (C, K, S)  
*Piptochaetium avenaceum* (L.) Parodi (A; F)  
*Poa autumnalis* Muhl. ex Ell. (A, K; F)  
*Saccharum giganteum* (Walt.) Pers. (C, A)  
*Schedonnardus paniculatus* (Nutt. Trel. (S)  
*Schizachyrium scoparium* (Michx.) Nash (C, A, K, M, S)  
*Schizachyrium tenerum* Nees (C, A)  
*Setaria parviflora* (Poir.) Kerg. (C, A, K, M, S)  
 \**Setaria pumila* (Poir.) Roemer & Schultes (C, M, S)  
 \**Sorghum halepense* (L.) Pers. (C, A, K)  
*Sorghastrum nutans* (L.) Nash (C, A, K, M)  
*Spartina spartinae* (Trin.) Merr. ex Hitchc. (C)  
*Sphenopholis filiformis* (Chapm.) Scribn. (S)  
*Sphenopholis intermedia* (Rydb.) Rydb. (K)  
*Sphenopholis obtusata* (Michx.) Scribn. (C, K, M)  
*Sporobolus clandestinus* (Biehler) Hitchc. (K)  
*Sporobolus compositus* (Poir.) Merr. var. *compositus* (C, A, K, M)  
*Sporobolus compositus* var. *drummondii* (Trin.) Kartesz & Gandhi (K)  
*Sporobolus compositus* var. *macer* (Trin.) Kartesz & Gandhi (K, S)  
 \**Sporobolus indicus* (L.) R. Br. (K, S)  
*Sporobolus junceus* (Beauv.) Kunth (C, A, K)  
*Sporobolus neglectus* Nash (A)  
*Sporobolus pyramidatus* (Lam.) A.S. Hitchc. (S)  
*Sporobolus ozarkanus* Fernald (K)  
*Sporobolus silveanus* Swallen (C)  
*Sporobolus vaginiflorus* (Torr. ex Gray) Alph. Wood (S)  
*Steinchisma hians* (Ell.) Nash (C, S)  
*Tridens ambiguus* (Ell.) J.A. Schultes (C, A)  
*Tridens flavus* (L.) A.S. Hitchc. var. *flavus* (C, A, K, S)  
*Tridens strictus* (Nutt.) Nash (C, A, K, M, S)  
*Tripsacum dactyloides* (L.) L. (C, A, M)  
*Trisetum interruptum* Buckl. (A)  
*Urochloa platyphylla* (Munro ex Wright) R. Webster (C, S)  
*Vulpia octoflora* (Walt.) Rydb. (C, A, K, S)

### **Pontederiaceae**

*Pontederia cordata* L. (C)

### **Potamogetonaceae**

*Potamogeton diversifolius* Raf. (S)

### **Smilacaceae**

*Smilax bona-nox* L. (A, K, M; F)  
*Smilax glauca* Walt. (A, K; F)  
*Smilax herbacea* L. (A, K; F)  
*Smilax pumila* Walt. (A, K; F)  
*Smilax rotundifolia* L. (C, A, K, S; F)  
*Smilax smallii* Morong (A; F)

*Smilax tamnoides* L. (A, K; F)

### **Typhaceae**

*Typha latifolia* L. (C)

### **Xyridaceae**

*Xyris difformis* Chapman var. *difformis* (C)

*Xyris laxifolia* Mart. (C)

*Xyris torta* Sm. (C)

## **DICOTYLEDONS**

### **Acanthaceae**

*Dicliptera brachiata* (Pursh) Spreng. (A; F)

*Hygrophila lacustris* (Schlecht. & Cham.) Nees (C)

*Justicia ovata* (Walt.) Lindau (C, S)

*Ruellia humilis* Nutt. (C, A, K, M, S)

*Ruellia pedunculata* Torr. ex A. Gray (K; F)

### **Aceraceae**

*Acer barbatum* Michx. (A, K; F)

*Acer leucoderme* Small (A, K; F)

*Acer rubrum* L. var. *rubrum* (A, K; F)

### **Amaranthaceae**

\**Alternanthera philoxeroides* (Mart.) Griseb. (C)

### **Anacardiaceae**

*Rhus copallinum* L. (C, A, K, S; F)

*Toxicodendron radicans* (L.) Kuntze (C, A, K, M; F)

### **Annonaceae**

*Asimina triloba* (L.) Dunal (A, K; F)

### **Apiaceae**

*Centella erecta* (L. f.) Fern. (C)

*Chaerophyllum tainturieri* Hook. (C, A, K)

*Cicuta maculata* L. (C)

*Cryptotaenia canadensis* (L.) DC. (K; F)

\**Cyclospermum leptophyllum* (Pers.) Sprague ex Britton & Wilson (K)

*Cynosciadium digitatum* DC. (C)

*Daucus pusillus* Michx. (K, S)

*Eryngium integrifolium* Walt. (C)

*Eryngium yuccifolium* Michx. (C, A, K, M)

*Limnosciadium pinnatum* (DC.) Mathias & Constance (S)

*Polytaenia nuttallii* DC. (C, K)

*Ptilimnium capillaceum* (Michx.) Raf. (C)

*Ptilimnium costatum* (Ell.) Raf. (C)

*Ptilimnium nuttallii* (DC.) Britt. (S)

*Sanicula canadensis* L. (A, K; F)

*Spermolepis echinata* (Nutt. ex DC.) Heller (C, A)

*Taenidia integerrima* (L.) Drude (K; F)  
*Trepocarpus aethusae* Nutt. ex DC. (K, M, S)  
*Zizia aurea* (L.) W.D.J. Koch (K; F)

### **Apocynaceae**

*Amsonia tabernaemontana* Walt. (C)  
*Apocynum cannabinum* L. (A, K)  
*Trachelospermum difforme* (Walt.) A. Gray (K; F)

### **Aquifoliaceae**

*Ilex decidua* Walt. (C, A, K, M; F)  
*Ilex longipes* Chapman ex Trel. (A; F)  
*Ilex opaca* Ait. (A, K; F)  
*Ilex vomitoria* Ait. (C, A, K, S; F)

### **Araliaceae**

*Aralia spinosa* L. (A, K; F)

### **Aristolochiaceae**

*Aristolochia serpentaria* L. (A, K; F)

### **Asclepiadaceae**

*Asclepias lanceolata* Walt. (C)  
*Asclepias longifolia* Michx. (C, K)  
*Asclepias obovata* Ell. (C, A, K)  
*Asclepias stenophylla* A. Gray (K)  
*Asclepias tuberosa* L. (C, A, K)  
*Asclepias variegata* L. (A; F)  
*Asclepias verticillata* L. (C, A, K, M)  
*Asclepias viridiflora* Raf. (C, K)  
*Asclepias viridis* Walt. (C, A, K, M)  
*Cynanchum laeve* (Michx.) Pers. (C)  
*Matelea decipiens* (Alexander) Woodson (K; F)  
*Matelea gonocarpos* (Walt.) Shinnars (C, A, K; F)

### **Asteraceae**

*Ambrosia artemisiifolia* L. (C, A, M)  
*Ambrosia bidentata* Michx. (C, A, M)  
*Ambrosia psilostachya* DC. (C, K, M)  
*Ambrosia trifida* L. (C, M)  
*Antennaria parlinii* subsp. *fallax* (Greene) Bayer & Stebbins (A, K; F)  
*Arnoglossum ovatum* (Walter) H. Rob. (C)  
*Arnoglossum plantagineum* Raf. (K, M)  
*Baccharis halimifolia* L. (C, A, K, M, S)  
*Bidens aristosa* (Michx.) Britt. (C)  
*Bigelovia nuttallii* L.C. Anders. (C, A)  
*Boltonia asteroides* (L.) L'Hér. (C)  
*Boltonia diffusa* Ell. (C, M, S)  
*Brickellia eupatorioides* (L.) Shinnars (K; F)  
*Chromolaena ivifolia* (L.) King. & Robins. (C)  
*Chrysopsis mariana* (L.) Ell. (C)

*Chrysopsis pilosa* Nutt. (S)  
*Cirsium carolinianum* (Walt.) Fern. & Schub. (A)  
*Cirsium discolor* (Muhl. ex Willd.) Spreng. (K)  
*Cirsium horridulum* Michx. (C, A, K, M)  
*Conoclinium coelestinum* (L.) DC. (A, K)  
*Conyza canadensis* (L.) Cronq. (C)  
*Coreopsis gladiata* Walt. (C)  
*Coreopsis lanceolata* L. (C, A, K, M, S)  
*Coreopsis palmata* Nutt. (M)  
*Coreopsis pubescens* Ell. (C, A)  
*Coreopsis tinctoria* Nutt. (C, A, S)  
*Coreopsis tripteris* L. (C, K)  
*Echinacea pallida* (Nutt.) Nutt. (C, A, K, M)  
*Echinacea purpurea* (L.) Moench (A)  
*Echinacea sanguinea* Nutt. (A, M)  
*Elephantopus carolinianus* Raeusch. (A, K; F)  
*Elephantopus tomentosus* L. (K; F)  
*Erechtites hieraciifolia* (L.) Raf. ex DC. (C, A, K)  
*Erigeron annuus* (L.) Pers. (C)  
*Erigeron philadelphicus* L. (C, K)  
*Erigeron pulchellus* Michx. (A; F)  
*Erigeron strigosus* Muhl. ex Willd. (C, A, K, M)  
*Erigeron tenuis* Torr. & Gray (M, S)  
*Eupatorium altissimum* L. (K)  
*Eupatorium capillifolium* (Lam.) Small (C, A, K)  
*Eupatorium hyssopifolium* L. (C, A)  
*Eupatorium leucolepis* (DC.) Torr. & Gray (C)  
*Eupatorium perfoliatum* L. (C, A)  
*Eupatorium rotundifolium* L. (C, A)  
*Eupatorium semiserratum* DC. (C, K)  
*Eupatorium serotinum* Michx. (C, A, K, M)  
*Eurybia hemispherica* (Alexander) Nesom (C, A, K, M)  
*Euthamia leptcephala* (Torr. & Gray) Greene (C, A, K, S)  
*Euthamia tenuifolia* (Pursh) Nutt. (C)  
*Evax verna* Raf. (S)  
*Facelis retusa* (Lam.) Sch. Bip. (S)  
*Gaillardia aestivalis* (Walt.) H. Rock var. *aestivalis* (C, A, K, M)  
*Gaillardia aestivalis* var. *flavovirens* (C. Mohr) Cronq. (K)  
*Gamochaeta argyrinea* Nesom (S)  
*Gamochaeta purpurea* (L.) Cabrera (C)  
*Helenium amarum* (Raf.) H. Rock (C, A)  
*Helenium autumnale* L. (K)  
*Helenium drummondii* H. Rock (C)  
*Helenium flexuosum* Raf. (C, K, S)  
*Helianthus angustifolius* L. (C, A, K)  
*Helianthus hirsutus* Raf. (A, K, M)  
*Helianthus mollis* Lam. (C)  
*Heliopsis helianthoides* (L.) Sweet var. *helianthoides* (A; F)  
*Heliopsis gracilis* Nutt. (K; F)  
*Heterothexa subaxillaris* (Lam.) Britt. & Rusby (M)  
*Hieracium gronovii* L. (K; F)

*Ionactis linariifolius* (L.) Greene (A)  
*Iva angustifolia* Nutt. ex DC. (S)  
*Iva annua* L. (C, K, M, S)  
*Krigia caespitosa* (Raf.) Chambers (C)  
*Krigia dandelion* (L.) Nutt. (C, S)  
*Krigia occidentalis* Nutt. (S)  
*Krigia virginica* (L.) Willd. (C)  
*Lactuca canadensis* L. (C, K)  
*Lactuca floridana* (L.) Gaertn. (C)  
*Liatris acidota* Engelm. & Gray (C)  
*Liatris aspera* Michx. (A, K, M, S)  
*Liatris elegans* (Walt.) Michx. (C, A)  
*Liatris pycnostachya* Michx. (C, A, K)  
*Liatris spicata* (L.) Willd. (C, A)  
*Liatris squarrosa* (L.) Michx. (C, K, M)  
*Liatris squarrulosa* Michx. (A, K)  
*Marshallia caespitosa* Nutt. ex DC. (M, S)  
*Mikania scandens* (L.) Willd. (C)  
*Oligoneuron nitidum* (Torr. & Gray) Small (C, A, K, M)  
*Oligoneuron rigidum* (L.) Small (K, M)  
*Packera glabella* (Poir.) C. Jeffrey (C)  
*Packera obovata* (Muhl. ex Willd.) Weber & Löve (A)  
*Packera tomentosa* (Michx.) C. Jeffery (C)  
*Parthenium integrifolium* L. (M)  
*Pityopsis graminifolia* (Michx.) Nutt. (C, A)  
*Pluchea camphorata* (L.) DC. (C)  
*Pluchea foetida* (L.) DC. (C)  
*Pluchea rosea* Godfrey (C)  
*Pseudognaphalium helleri* (Britt.) A. Anderb. (A)  
*Pseudognaphalium obtusifolium* (L.) Hilliard & Burt (C, A, K)  
*Pterocaulon virgatum* (L.) DC. (C, S)  
*Pyrrhopappus carolinianus* (Walt.) DC. (C, A, K, S)  
*Ratibida pinnata* (Vent.) Barnh. (A)  
*Rudbeckia grandiflora* (D. Don) J.F. Gmel. ex DC. (C)  
*Rudbeckia hirta* L. (C, A, K, M)  
*Rudbeckia missouriensis* Engelm. ex Boynt. & Beadle (A)  
*Rudbeckia subtomentosa* Pursh (K; F)  
*Rudbeckia texana* (Perdue) Cox & Urbatsch (C)  
*Silphium asteriscus* L. (K)  
*Silphium gracile* Gray (C, A)  
*Silphium integrifolium* Michx. (K, M)  
*Silphium laciniatum* L. (C, A, K, M)  
*Silphium radula* Nutt. (K)  
*Solidago arguta* Ait. (K)  
*Solidago auriculata* Shuttlew. ex. Blake (K)  
*Solidago caesia* L. var. *caesia* (A, K; F)  
*Solidago canadensis* L. (C, A, K, M)  
*Solidago nemoralis* Ait. (K)  
*Solidago odora* Ait. (C, A, K)  
*Solidago petiolaris* Ait. (K)  
*Solidago radula* Nutt. (K)



*Solidago rugosa* P. Mill. (C, A, K)  
*Solidago sempervirens* var. *mexicana* (L.) Fern. (C)  
*Solidago ulmifolia* Muhl. ex Willd. (K)  
 \**Sonchus asper* (L.) Hill (C)  
 \**Sonchus oleraceus* L. (C)  
*Symphyotrichum drummondii* var. *texanum* (Burgess) Nesom (A, K, M)  
*Symphyotrichum dumosum* (L.) Nesom (C, A, K)  
*Symphyotrichum laeve* (L.) Löve & Löve (M)  
*Symphyotrichum lateriflorum* (L.) Löve & Löve (C, A, K, M)  
*Symphyotrichum oolentangiense* (Riddell) Nesom (C, K, M)  
*Symphyotrichum ontarione* (Wieg.) Nesom (M)  
*Symphyotrichum patens* (Ait.) Nesom (C, A, K, M)  
*Symphyotrichum pilosum* (Willd.) Nesom (M)  
*Symphyotrichum praealtum* (Poir.) Nesom (M)  
*Symphyotrichum pratense* (Raf.) Nesom (C, A, K, M, S)  
*Verbesina alternifolia* (L.) Britt. ex Kearney (A)  
*Verbesina helianthoides* Michx. (A, K)  
*Verbesina virginica* L. (A, K)  
*Vernonia gigantea* (Walt.) Trel. (C)  
*Vernonia missurica* Raf. (K)  
*Vernonia texana* (Gray) Small (C, K, M)

#### **Berberidaceae**

*Podophyllum peltatum* L. (A, K; F)

#### **Betulaceae**

*Carpinus caroliniana* Walt. (A, K; F)  
*Ostrya virginiana* (Mill.) K. Koch. (A, K; F)

#### **Bignoniaceae**

*Bignonia capreolata* L. (A, K; F)  
*Campsis radicans* (L.) Seem. ex Bureau (C, A, K, M; F)

#### **Boraginaceae**

*Cynoglossum virginianum* L. (A, K; F)  
*Heliotropium tenellum* (Nutt.) Torr. (A, K)  
*Lithospermum tuberosum* Rugel ex DC. (A, K)  
*Myosotis verna* Nutt. (C, A, K)  
*Onosmodium bejariense* DC. ex A. DC. (K, M)

#### **Brassicaceae**

\**Cardamine hirsuta* L. (C)  
*Cardamine parviflora* var. *arenicola* (Britt.) O.E. Schulz (C)  
 \**Lepidium densiflorum* Schrad. (S)  
*Lepidium virginicum* L. (C, S)

#### **Buddlejaceae**

*Polypremum procumbens* L. (C, A, K, S)

#### **Cactaceae**

*Opuntia* spp. (S)

**Callitrichaceae***Callitriche heterophylla* Pursh (C)*Callitriche pedunculosa* Nutt. (S)**Campanulaceae***Lobelia appendiculata* A. DC. (C, K, M, S)*Lobelia puberula* Michx. (C, A)*Triodanis biflora* (Ruiz & Pav.) Greene (K)*Triodanis perfoliata* (L.) Nieuwl. (C, A, K, S)**Caprifoliaceae**\**Lonicera japonica* Thunb. (A, K, M)*Lonicera sempervirens* L. (A, K)*Sambucus nigra* subsp. *canadensis* (L.) R. Bolli (C)*Symphoricarpos orbiculatus* Moench. (M)*Viburnum acerifolium* L. (K; F)*Viburnum dentatum* L. (A, K; F)*Viburnum rufidulum* Raf. (A, K, M; F)**Caryophyllaceae**\**Cerastium glomeratum* Thuill. (C, S)*Geocarpon minimum* Mackenzie (S)*Minuartia drummondii* (Shinners) McNeill (S)*Minuartia muscorum* (Fassett) Rabeler (S)*Silene antirrhina* L. (C)**Celastraceae***Euonymus americanus* L. (A; F)**Cistaceae***Helianthemum rosmarinifolium* Pursh (S)*Lechea mucronata* Raf. (C)*Lechea san-sabeana* (Buckley) Hodgdon (S)*Lechea tenuifolia* Michx. (C, S)**Clusiaceae***Hypericum crux-andreae* (L.) Crantz (C)*Hypericum drummondii* (Grev. & Hook.) Torr. & Gray (C, A, S)*Hypericum frondosum* Michx. (A, K)*Hypericum gentianoides* (L.) B.S.P. (C, S)*Hypericum gymnanthum* Engelm. & Gray (C)*Hypericum hypericoides* (L.) Crantz subsp. *hypericoides* (C, A, K, S)*Hypericum nudiflorum* Michx. ex Willd. (C)*Hypericum prolificum* L. (K; F)*Hypericum punctatum* Lam. (K; F)**Convolvulaceae***Dichondra carolinensis* Michx. (C, K, M, S)*Evolvulus sericeus* Sw. (C, S)*Ipomoea lacunosa* L. (C)*Ipomoea pandurata* (L.) G.F.W. Mey. (A, K)*Ipomoea sagittata* Poir. (C)

*Stylisma aquatica* (Walt.) Raf. (C)

### **Cornaceae**

*Cornus drummondii* C.A. Mey. (C, A, K, M; F)

*Cornus florida* L. (A, K; F)

### **Crassulaceae**

*Crassula aquatica* (L.) Schoenl. (S)

### **Cucurbitaceae**

\**Cucumis melo* L. (C)

*Melothria pendula* L. (C)

### **Cuscutaceae**

*Cuscuta cuspidata* Engelm. (K)

*Cuscuta gronovii* Willd. ex Schult. (S)

*Cuscuta indecora* Choisy (C)

*Cuscuta pentagona* Engelm. (M)

### **Droseraceae**

*Drosera brevifolia* Pursh (C, S)

### **Ebenaceae**

*Diospyros virginiana* L. (C, A, K, M; F)

### **Ericaceae**

*Rhododendron canescens* (Michx.) Sweet (A, K; F)

*Vaccinium arboreum* Marsh. (C, A, K, S; F)

*Vaccinium elliottii* Chapman (A, K; F)

*Vaccinium stamineum* L. (K; F)

*Vaccinium virgatum* Ait. (A, K; F)

### **Euphorbiaceae**

*Acalypha gracilens* A. Gray (C, A, K)

\**Caperonia palustris* (L.) St.-Hil. (C)

*Chamaesyce humistrata* (Engelm.) Small (C)

*Chamaesyce maculata* (L.) Small (C, A, K, S)

\**Chamaesyce nutans* (Lag.) Small (K, M)

*Chamaesyce serpens* (Kunth) Small (A)

*Croton capitatus* Michx. (C, A, K, S)

*Croton glandulosus* L. (C)

*Croton monanthogynus* Michx. (A, M)

*Croton willdenowii* G.L. Webster (C, S)

*Euphorbia bicolor* Engelm. & Gray (A, K)

*Euphorbia corollata* L. (C, A, K, M)

\*\**Euphorbia marginata* Pursh (= *E. bicolor* Engelm. & Gray)

*Euphorbia spathulata* Lam. (C, K, S)

*Tragia betonicifolia* Nutt. (C, A, K)

*Tragia cordata* Michx. (A, K; F)

*Tragia urticifolia* Michx. (K, M)

\**Triadica sebifera* (L.) Small (C, A)

**Fabaceae**

- Acacia angustissima* var. *hirta* (Nutt.) B.L. Robins. (A, K, M)  
 \**Aeschynomene indica* L. (C)  
*Amphicarpa bracteata* (L.) Fern. (K; F)  
*Astragalus crassicaarpus* Nutt. (K)  
*Astragalus distortus* var. *engelmanni* (E. Sheld.) M.E. Jones (M, S)  
*Baptisia alba* (L.) Vent. (C, A, K)  
*Baptisia bracteata* Muhl. ex Ell. (C, M)  
*Baptisia nuttalliana* Small (C, A, K)  
*Baptisia sphaerocarpa* Nutt. (C)  
*Centrosema virginianum* (L.) Benth. (C, A, M)  
*Cercis canadensis* L. (A, K, M; F)  
*Chamaecrista fasciculata* (Michx.) Greene (C, A, K, M, S)  
*Clitoria mariana* L. (K; F)  
*Crotalaria sagittalis* L. (C, A, K)  
*Dalea candida* Michx. ex Willd. (C, A, K, M)  
*Dalea purpurea* Vent. (A, K, M)  
*Desmanthus illinoensis* (Michx.) MacM. ex Robins. & Fern. (K, M)  
*Desmodium canescens* (L.) DC. (K)  
*Desmodium ciliare* (Muhl. ex Willd.) DC. (C, K)  
*Desmodium cuspidatum* (Muhl. ex Willd.) DC. ex D. Don (K)  
*Desmodium glabellum* (Michx.) DC. (K)  
*Desmodium glutinosum* (Muhl. ex Willd.) Wood (A)  
*Desmodium marilandicum* (L.) DC. (K)  
*Desmodium nudiflorum* (L.) DC. (A, K; F)  
*Desmodium paniculatum* (L.) DC. (C, K)  
*Desmodium pauciflorum* (Nutt.) DC. (K; F)  
*Desmodium rotundifolium* DC. (K; F)  
*Desmodium sessilifolium* (Torr.) Torr. & Gray (C)  
*Erythrina herbacea* L. (C, K)  
*Galactia regularis* (L.) B.S.P. (K)  
*Galactia volubilis* (L.) Britt. (C, A, K, M)  
*Gleditsia triacanthos* L. (A, K, M, S; F)  
 \**Glottidium vesicarium* (Jacq.) Harper (C, A, K)  
 \**Kummerowia striata* (Thunb.) Schindl. (C, S)  
*Lathyrus pusillus* Ell. (S)  
*Lespedeza capitata* Michx. (C)  
 \**Lespedeza cuneata* (Dum.-Cours.) G. Don (C, A, M)  
*Lespedeza procumbens* Michx. (K)  
*Lespedeza repens* (L.) W. Bart. (C, A, K, S)  
*Lespedeza virginica* (L.) Britt. (C, A, K)  
*Lotus unifoliolatus* (Hook.) Benth. (S)  
 \**Medicago lupulina* L. (C, M, S)  
 \**Medicago polymorpha* L. (C)  
 \**Medicago sativa* L. (K)  
 \**Melilotus indicus* (L.) All. (C)  
*Mimosa hystricina* (Small ex Britt. & Rose) B.L. Turner (C)  
 \*\**Mimosa microphylla* Dryand (= *M. nuttallii* (DC.) B.L. Turner)  
*Mimosa nuttallii* (DC.) B.L. Turner (A, K, M)  
*Mimosa strigillosa* Torr. & Gray (K, M, S)  
*Neptunia lutea* (Leavenw.) Benth. (C, A, K, M, S)

*Neptunia pubescens* Benth. (C, A)  
*Orbexilum pedunculatum* var. *psoralioides* (Walt.) Isley (C, A)  
*Orbexilum simplex* (Nutt. ex Torr. & Gray) Rydb. (C, K)  
*Phaseolus polystachios* (L.) B.S.P. (A)  
*Rhynchosia latifolia* Nutt. ex Torr. & Gray (K)  
*Rhynchosia minima* (L.) DC. (C)  
*Senna marilandica* (L.) Link (A, K)  
*Sesbania herbacea* (Mill.) McVaugh (K)  
*Strophostyles leiosperma* (Torr. & Gray) Piper (S)  
*Strophostyles umbellata* (Muhl. ex Willd.) Britt. (C, K)  
*Stylosanthes biflora* (L.) B.S.P. (C, K)  
*Tephrosia onobrychoides* Nutt. (C)  
*Tephrosia virginiana* (L.) Pers. (A, K)  
*Trifolium bejariense* Moric. (C)  
 \**Trifolium dubium* Sibth. (C, M)  
 \**Trifolium resupinatum* L. (C)  
*Vicia ludoviciana* Nutt. (C)  
*Vicia minutiflora* F.G. Dietr. (A, K)

### Fagaceae

*Castanea pumila* (L.) P. Mill. var. *pumila* (C)  
*Fagus grandifolia* Ehrh. (A, K; F)  
*Quercus alba* L. (A, K; F)  
*Quercus falcata* Michx. (C, A; F)  
*Quercus hemisphaerica* Bartr. ex Willd. var. *hemisphaerica* (A; F)  
*Quercus incana* Bartr. (C; F)  
*Quercus margarettiae* Ashe ex Small (S; F)  
*Quercus marilandica* Muenchh. (C, A, K; F)  
*Quercus muehlenbergii* Engelm. (A; F)  
*Quercus nigra* L. (C, A, K; F)  
*Quercus pagoda* Raf. (K; F)  
*Quercus phellos* L. (K, S; F)  
*Quercus shumardii* Buckl. var. *shumardii* (A, K; F)  
*Quercus similis* Ashe (S; F)  
*Quercus stellata* Wangenh. (C, A, K, M, S; F)  
*Quercus velutina* Lam. (A; F)  
*Quercus virginiana* P. Mill. (C; F)

### Gentianaceae

\**Centaurium pulchellum* (Sw.) Druce (C, M)  
*Sabatia angularis* (L.) Pursh (A, K)  
*Sabatia brachiata* Ell. (C)  
*Sabatia campestris* Nutt. (C, K, M, S)  
*Sabatia gentianoides* Ell. (C)  
*Sabatia stellaris* Pursh (C)

### Geraniaceae

*Geranium carolinianum* L. (C, A, K)  
*Geranium dissectum* L. (A, K)

**Grossulariaceae***Ribes curvatum* Small (S)**Haloragaceae***Myriophyllum pinnatum* (Walt.) B.S.P. (S)*Proserpinaca palustris* L. (C)**Hamamelidaceae***Hamamelis virginiana* L. (A, K; F)*Liquidambar styraciflua* L. (C, A, K; F)**Hippocastanaceae***Aesculus pavia* L. (A, K; F)**Hydrophyllaceae***Phacelia glabra* Nutt. (S)*Hydrolea ovata* Nutt. ex Choisy (C)**Juglandaceae***Carya alba* (L.) Nutt. ex Ell. (A, K; F)*Carya cordiformis* (Wangenh.) K. Koch (A; F)*Carya glabra* (P. Mill.) Sweet var. *glabra* (A; F)*Carya glabra* var. *hirsuta* (Ashe) Ashe (A; F)*Carya illinoensis* (Wangenh.) K. Koch (C; F)*Carya myristiciformis* (Michx. f.) Nutt. (A, K; F)*Carya ovata* (P. Mill.) K. Koch (A, K; F)*Carya texana* Buckley (K; F)**Lamiaceae***Hedeoma hispida* Pursh (A, K, S)*Hyptis alata* (Raf.) Shinnery (C)\**Lamium amplexicaule* L. (C)*Lycopus americanus* Muhl. ex W. Bart. (C)*Monarda fistulosa* L. (C, A, K)*Monarda lindheimeri* Engelm. & Gray ex Gray (C)*Monarda punctata* L. (C)*Physostegia intermedia* (Nutt.) Engelm. & Gray (C, S)*Physostegia virginiana* subsp. *praemorsa* (Shinnery) Cantino (C)*Prunella vulgaris* L. (K, M, S)*Pycnanthemum albescens* Torr. & Gray (C, A, K)*Pycnanthemum muticum* (Michx.) Pers. (C)*Pycnanthemum tenuifolium* Schrad. (C, A, K, M)*Salvia azurea* Michx. ex Lam. (C, A, K, M)*Salvia lyrata* L. (C, A, K, M)*Scutellaria elliptica* Muhl. ex Spreng. (A)*Scutellaria integrifolia* L. (C, A, K, S)*Scutellaria ovata* Hill (K)*Scutellaria parvula* Michx. (C, K, S)*Stachys crenata* Raf. (C)*Stachys floridana* Shuttlew. Ex Benth. (C)*Teucrium canadense* L. (C, K)

**Lauraceae**

- Persea palustris* (Raf.) Sarg. (A; F)  
*Sassafras albidum* (Nutt.) Nees (C, A, K)

**Lentibulariaceae**

- Pinguicula pumila* Michx. (C)  
*Utricularia subulata* L. (C)

**Linaceae**

- Linum medium* var. *texanum* (Planch.) Fern. (C, K, S)  
 \*\**Linum rigidum* Pursh; not in Louisiana (= *L. medium* or *L. striatum*)  
*Linum striatum* Walt. (K)  
*Linum sulcatum* Riddell (C)

**Loganiaceae**

- Gelsemium sempervirens* (L.) St. Hil. (A, K, S; F)  
*Mitreola petiolata* (J.F. Gmel.) Torr. & Gray (C, K)  
*Mitreola sessilifolia* (J.F. Gmel.) G. Don (C)  
*Spigelia marilandica* (L.) L. (A, K; F)

**Lythraceae**

- Ammannia coccinea* Rottb. (S)  
 \**Cuphea glutinosa* Cham. & Schlecht. (C)  
*Lythrum alatum* var. *lanceolatum* (Ell.) Torr & Gray ex Rothr. (C, A, K, M)

**Magnoliaceae**

- Magnolia grandiflora* L. (A; F)  
*Magnolia virginiana* L. (A; F)

**Malvaceae**

- Callirhoe papaver* (Cav.) Gray (C, K)  
*Hibiscus moscheutos* subsp. *lasiocarpos* (Cav.) O.J. Blanchard (C)  
*Modiola caroliniana* (L.) G. Don (C)  
*Sida rhombifolia* L. (C)

**Melastomataceae**

- Rhexia mariana* L. (C)

**Meliaceae**

- \**Melia azedarach* L. (C)

**Menispermaceae**

- Cocculus carolinus* (L.) DC. (A, K; F)

**Molluginaceae**

- \**Mollugo verticillata* L. (C)

**Monotropaceae**

- Monotropa hypopithys* L. (K; F)

**Moraceae***Maclura pomifera* (Raf.) Schenid. (K, M; F)*Morus rubra* L. (A, K; F)**Myricaceae***Morella cerifera* (L.) Small (C, A, K; F)**Nyssaceae***Nyssa sylvatica* Marsh (C, A, K; F)**Nyctaginaceae***Mirabilis albida* (Walt.) Helmerl (S)**Oleaceae***Chionanthus virginicus* L. (A, K; F)*Forestiera ligustrina* (Michx.) Poir (S)*Fraxinus americana* L. (A, K; F)*Fraxinus pennsylvanica* Marsh (M, S; F)\**Ligustrum sinense* Lour. (A, S; F)**Onagraceae***Gaura lindheimeri* Engelm. & Gray (C)*Gaura longiflora* Spach (C, A, K)*Ludwigia alternifolia* L. (S)*Ludwigia decurrens* Walt. (C)*Ludwigia glandulosa* Walt. (C, S)*Ludwigia hirtella* Raf. (C)*Ludwigia leptocarpa* (Nutt.) Hara (C)*Ludwigia linearis* Walt. (C)*Ludwigia palustris* (L.) Ell. (C)\**Ludwigia peploides* (Kunth) Raven (S)*Oenothera biennis* L. (C)*Oenothera laciniata* Hill (C, S)*Oenothera linifolia* Nutt. (C, S)*Oenothera pilosella* Raf. subsp. *sessilis* (Pennell) Straley (C)*Oenothera spachiana* Torr. & Gray (C, S)*Oenothera speciosa* Nutt. (C, K, M)**Orobanchaceae***Epifagus virginiana* (L.) W. Bart. (A; F)**Oxalidaceae***Oxalis corniculata* L. (M, S)*Oxalis dillenii* Jacq. (S)*Oxalis stricta* L. (C, A, K)*Oxalis violacea* L. (C, K)**Passifloraceae***Passiflora incarnata* L. (C, K)*Passiflora lutea* L. (A, K; F)



**Phytolaccaceae***Phytolacca americana* L. (C)**Plantaginaceae***Plantago aristata* Michx. (C, S)*Plantago heterophylla* Nutt. (C)*Plantago pusilla* Nutt. (S)*Plantago virginica* L. (C, K, S)**Platanaceae***Platanus occidentalis* L. (A, K; F)**Polemoniaceae***Phlox divaricata* L. (A, K)*Phlox pilosa* L. (C, A, K, M)**Polygalaceae***Polygala cruciata* L. (C)*Polygala incarnata* L. (C)*Polygala leptocaulis* Torr. & Gray (C)*Polygala mariana* P. Mill. (C)*Polygala nana* (Michx.) DC. (C)*Polygala ramosa* Ell. (C)*Polygala sanguinea* L. (C)*Polygala verticillata* L. (C, K)**Polygonaceae**\**Polygonum aviculare* L. (S)*Polygonum hydropiperoides* Michx. (C, S)*Polygonum ramosissimum* Michx. (S)*Rumex hastatulus* Baldw. (S)*Rumex verticillatus* L. (C)**Portulacaceae***Claytonia virginica* L. (C, S)*Phemeranthus parviflorus* (Nutt.) Kiger (S)**Primulaceae**\**Anagallis arvensis* L. subsp. *arvensis* (C, A)\**Anagallis arvensis* subsp. *foemina* (P. Mill.) Schinz & Thellung (A)*Anagallis minima* (L.) Krause (C, A, S)*Lysimachia lanceolata* Walt. (K)*Samolus valerandi* subsp. *parviflorus* (Raf.) Hultén (K; F)**Ranunculaceae***Anemone berlandieri* Pritz. (K, M)*Anemone caroliniana* Walt. (C, S)*Clematis virginiana* L. (A)*Delphinium carolinianum* Walt. (K, S, M)*Ranunculus fascicularis* Muhl. ex Bigelow (C, A, S)*Ranunculus laxicaulis* (Torr. & Gray) Darby (C)

- \**Ranunculus muricatus* L. (C)
- \**Ranunculus parviflorus* L. (C, A)
- Ranunculus pusillus* Poir. (C)
- \**Ranunculus sardous* Crantz. (K, S)

### **Rhamnaceae**

- Berchemia scandens* (Hill) K. Koch (C, A, K, M; F)
- Ceanothus americanus* L. (C, A, K)
- Frangula caroliniana* (Walt.) Gray (A, K; F)

### **Rosaceae**

- Agrimonia microcarpa* Wallr. (A, K; F)
- Crataegus berberifolia* Torr. & Gray (K; F)
- Crataegus brachyacantha* Sarg. & Engelm. (M; F)
- Crataegus crus-galli* L. (C, A, K; F)
- Crataegus marshallii* Egglest. (A, K, M; F)
- Crataegus spathulata* Michx. (A, K, M; F)
- Crataegus viridis* L. (K; F)
- Geum canadense* Jacq. (C, K)
- Malus angustifolia* (Ait.) Michx. (A; F)
- Porteranthus stipulatus* (Muhl. ex Willd.) Britt. (A; F)
- Potentilla simplex* Michx. (K; F)
- Prunus mexicana* S. Wats. (A, K; F)
- Prunus serotina* Ehrh. (C, A, K; F)
- \**Rosa bracteata* J.C. Wendl. (A)
- Rosa carolina* L. (M)
- Rosa setigera* Michx. (M)
- Rubus argutus* Link (C, A, K, S)
- Rubus flagellaris* Willd. (K)
- Rubus trivialis* Michx. (C, A, K, M, S)

### **Rubiaceae**

- Cephalanthus occidentalis* L. (C, K; F)
- Diodia teres* Walt. (C, K, S)
- Diodia virginiana* L. (C, K)
- Galium aparine* L. (C, K)
- Galium circaezans* Michx. (A, K; F)
- Galium pilosum* Ait. (A, K)
- Galium tinctorium* L. (C, A, K, S)
- Galium uniflorum* Michx. (A, K; F)
- Galium virgatum* Nutt. (C, A)
- Hedyotis nigricans* (Lam.) Fosberg (C, A, K, M)
- Houstonia micrantha* (Shinners) Terrell (C, A, M, S)
- Houstonia purpurea* var. *calycosa* Gray (K, M)
- Houstonia pusilla* Schoepf. (S)
- Houstonia rosea* (Raf.) Terrell (S)
- Mitchella repens* L. (A, K; F)
- Oldenlandia boscii* (DC.) Chapman (C, A)
- \**Sherardia arvensis* L. (A)

**Rutaceae**

- Ptelea trifoliata* L. (A; F)  
*Zanthoxylum clava-herculis* L. (C, A, S)

**Salicaceae**

- Salix nigra* Marsh. (C)

**Sapindaceae**

- \**Cardiospermum halicacabum* L. (C)

**Sapotaceae**

- Sideroxylon lanuginosum* subsp. *oblongifolium* (Nutt.) T.D. Pennington (A, K, M, S)

**Saxifragaceae**

- Lepuropetalon spathulatum* Ell. (C, S)  
*Saxifraga texana* Buckley (S)

**Scrophulariaceae**

- Agalinis fasciculata* (Ell.) Raf. (C)  
*Agalinis heterophylla* (Nutt.) Small ex Britt. (C, M, S)  
*Agalinis oligophylla* Pennell (C, A, K)  
*Agalinis pulchella* Pennell (A)  
*Agalinis purpurea* (L.) Pennell (A)  
*Agalinis skinneriana* (Wood) Britt. (C)  
*Agalinis tenuifolia* (Vahl) Raf. (K, M)  
*Agalinis viridis* (Small) Pennell (C, A)  
*Aureolaria grandiflora* (Benth.) Pennell (K, M; F)  
*Aureolaria virginica* (L.) Pennell (A; F)  
*Bacopa rotundifolia* (Michx.) Wettst. (C)  
*Buchnera americana* L. (C, K)  
*Gratiola flava* Leavenw. (S)  
*Gratiola neglecta* Torr. (C, K)  
*Gratiola virginiana* L. (C, S)  
*Lindernia dubia* (L.) Pennell var. *dubia* (C, A)  
*Mecardonia acuminata* (Walt.) Small (C, A, K)  
*Nuttallanthus canadensis* (L.) D.A. Sutton (C, S)  
*Nuttallanthus texanus* (Scheele) D.A. Sutton (C)  
*Pedicularis canadensis* L. (C, A, K, M)  
*Penstemon digitalis* Nutt. ex Sims (C)  
*Penstemon laxiflorus* Pennell (C, K, M)  
*Penstemon tubiflorus* Nutt. (A, K, M)  
 \**Veronica arvensis* L. (C)  
*Veronica peregrina* L. (C)

**Solanaceae**

- Physalis angulata* L. (C)  
*Physalis heterophylla* Nees (C, A)  
*Physalis longifolia* var. *subglabrata* (Mackenzie & Bush) Cronq. (A)  
*Physalis pumila* Nutt. (A, K)  
*Solanum americanum* P. Mill. (C)  
*Solanum carolinense* L. (C, K, S)

*Solanum dimidiatum* Raf. (C)  
*Solanum elaeagnifolium* Cav. (C)

### **Sterculiaceae**

\**Melochia corchorifolia* L. (C)

### **Styracaceae**

*Styrax americanus* Lam. (C)  
*Styrax grandifolius* Ait. (A, K; F)

### **Symplocaceae**

*Symplocos tinctoria* (L.) L'Hér. (A, K; F)

### **Tiliaceae**

*Tilia americana* var. *caroliniana* (P. Mill.) Castigl. (A; F)

### **Ulmaceae**

*Celtis laevigata* Willd. (C, A, K; F)  
*Celtis tenuifolia* Nutt. (A; F)  
*Ulmus alata* Michx. (A, K, M, S; F)  
*Ulmus americana* L. (C, K; F)  
*Ulmus crassifolia* Nutt. (K, M, S; F)  
*Ulmus rubra* Muhl. (A, K; F)

### **Urticaceae**

*Boehmeria cylindrica* (L.) Sw. (C, K)

### **Valerianaceae**

*Valerianella radiata* (L.) DuRoi. (C, K, M, S)

### **Verbenaceae**

*Callicarpa americana* L. (A, K; F)  
*Glandularia canadensis* (L.) Nutt. (K, M)  
*Glandularia pulchella* (Sweet) Troncoso (C)  
*Phryma leptostachya* L. (K; F)  
*Phyla nodiflora* (L.) Greene (C, K, M)  
 \**Verbena bonariensis* L. (C)  
 \**Verbena brasiliensis* Vell. (C, A, K, M)  
*Verbena halei* Small (C, K, M, S)  
 \**Verbena litoralis* Kunth (C)

### **Violaceae**

*Viola lanceolata* L. (C)  
*Viola pedata* L. (K)  
*Viola sagittata* Ait. (C)  
*Viola sororia* Willd. (A)  
*Viola walteri* House (A, K; F)

### **Viscaceae**

*Phoradendron leucarpum* (Raf.) Reveal & Johnston (A; F)

**Vitaceae**

*Ampelopsis arborea* (L.) Koehne (C, A, K, M; F)

*Parthenocissus quinquefolia* (L.) Planch. (C, A, K; F)

*Vitis aestivalis* Michx. (K; F)

*Vitis cinerea* (Engelm.) Millard (C, A, K)

*Vitis palmata* Vahl (K; F)

*Vitis rotundifolia* Michx. (A, K; F)

*Vitis vulpina* L. (K; F)